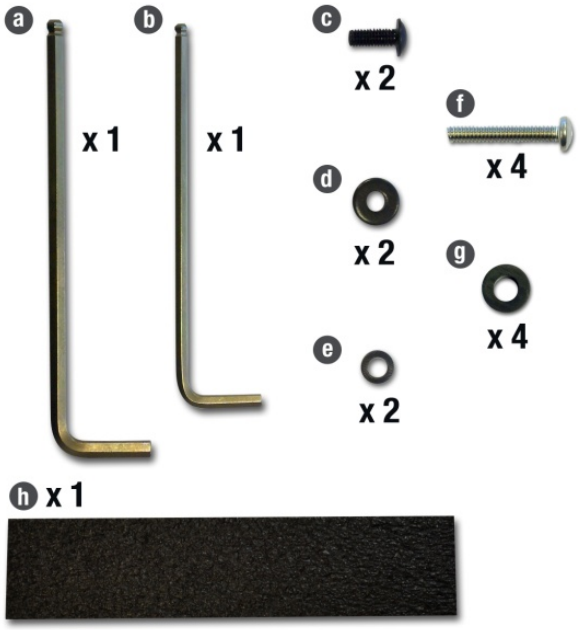
Pic 1

Pic 2



Panamorph CineVista

Anamorphic Lens System

For Ceiling and Shelf/Table Mount Installations

SUMMARY

The CineVista is a high performance anamorphic lens system designed for both ceiling mounted and shelf mounted projectors to provide the ultimate in true ultra wide entertainment. It is designed to be very easy to install and is used with your projector's aspect modes to display ultra wide movies and PC games on a 2.35:1 or 2.40:1 aspect ratio screen.

CONTENTS AND HARDWARE LIST:

Pic 1: One CineVista Anamorphic Lens
One CineVista Lens Mount with Lens Bracket attached

Pic 2:
a) Qty 1 - 5/32" Gold Hex Key
b) Qty 1- 1/8" Gold Hex Key
c) Qty 2 - #10-32 ½" Black Hex Screw
d) Qty 2 - #10-32 ½" Black Metal Washer
e) Qty 2 - #10-32 ½" Knurled Washer
h) Qty 1 – 9" x 2" x1/2" Foam Spacer

Hardware for Chief SLB installation (bent sides)
f) Qty 4 - 3/8" Plastic Spacer
g) Qty 4 - #10-24 1 ½" Stainless Steel Screw

FOR OPTIMUM PERFORMANCE

Range of focal distance from screen to projector: 8 - 18 feet (2.4 to 5.4 meters).

Ratio of projector throw distance to screen height: 2.5 x screen height *minimum* installation distance. Optimal installation range of 3 to 3.5 times screen height. It is not recommended to place your projector further back than a throw ratio of 4.5 times screen height.

Mounting configurations: 1) ceiling mounted (i.e. projector feet "up") and 2) shelf (or table top) mounted. If shelf mounted, the lens bracket or the lens mount should be attached to the shelf for stability.

Optimum vertical position of the projector: +/- 20% of screen height from the top or bottom edge of the screen.

Design tip: Minor variations from these instructions will typically not cause noticeable effects on image quality. However, a small throw ratio (ratio of throw distance to screen height) will likely result in the image being cut off at the edges. Overall, a larger ratio is recommended.

EQUIPMENT REQUIREMENTS

- Projector: 16:9 front projector (HD preferred) with required aspect modes. See the Aspect Mode Chart on page 4 for necessary modes and names. If your projector does not have the necessary aspect modes, an external video processor including a few Blu-ray players and A/V receivers have this ability or an external scalar can properly scale the image instead.

- Projector Ceiling Mount: Chief RPA series projector mounts are recommended either using the RPAU universal projector attachment or a projector specific SLBxx attachment bracket. The pictures in this manual use an SLB attachment bracket for clarity.

- Screen: 2.35:1 or 2.40:1 aspect projection screen

INSTALLING THE CINEVISTA LENS MOUNT

CEILING MOUNT OVERVIEW

- The CineVista Mount and Lens Bracket are shipped pre-assembled to make installation as simple as possible.

- The CineVista Mount (CV Mount) installs between the top and bottom halves of your projector's ceiling mount.

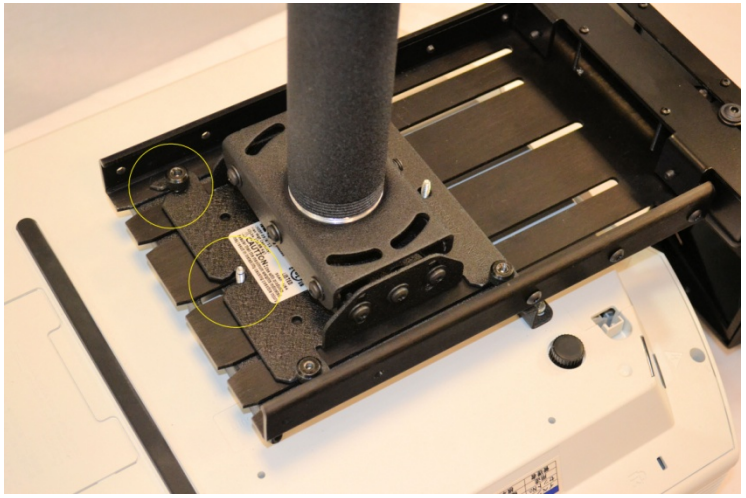
- The only additional piece needed to complete the lens system installation is to attach the CineVista Lens to the Lens Bracket once the projector and lens mount are both ceiling mounted.

- Once the CineVista Lens is attached to the CV Mount, final adjustments are made to center the lens in front of the projector's lens and fine tune the image on the screen.

INSTALLATION STEPS

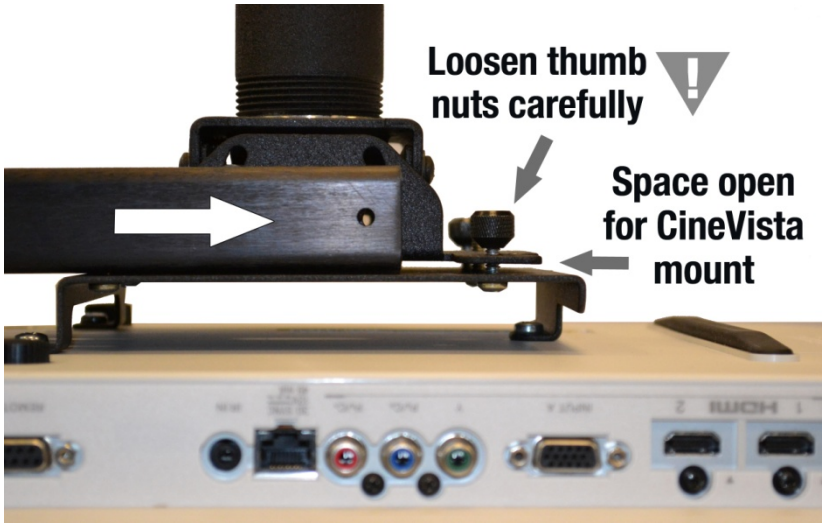
1. Perform a standard installation of your projector. For safety, we recommend that two people be involved whenever the projector is lifted on or off the ceiling mount. If you are using a Chief SLB bracket and the bracket sides are bent up on the sides, please use the additional hardware provided (Page 1, Pic 3) for the SLB installation.

2. It is also recommended that, when installing the Chief mount, that the top half of the projector mount be oriented such that the locating slots are facing the back of the projector and pointed away from your projector screen. The image below shows the correct orientation.

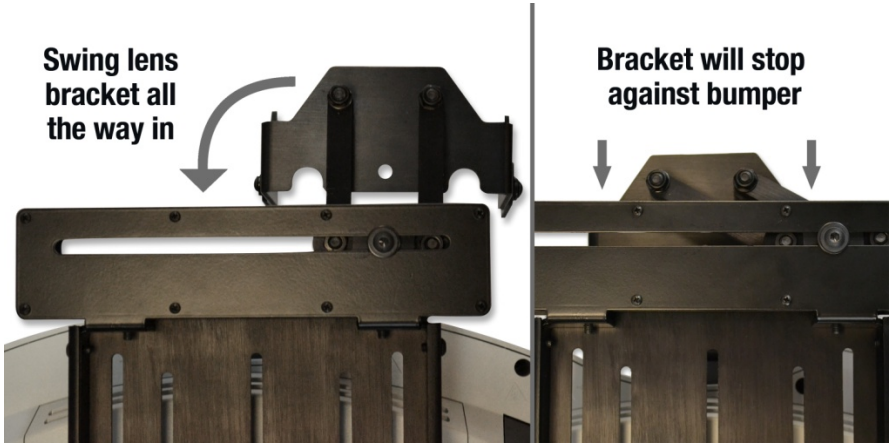


3. Make sure that the projector's lens is horizontally aligned with the center line of the screen and that the image is not tilted left to right relative to the top and bottom of the screen border (key-stoned). Be sure that the projector ceiling mount is properly installed, since the anamorphic lens system will add weight to the front of the projector. The CineVista system weight is 11 lbs, which does not include the projector weight.

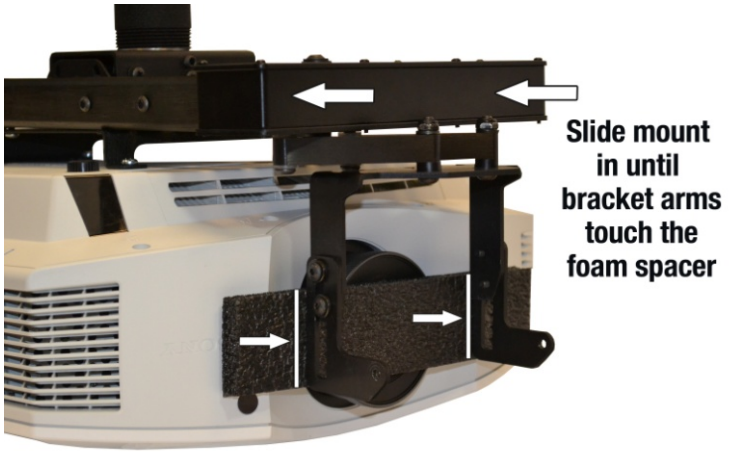
4. Once you have the projector properly aligned with the screen, CAREFULLY loosen the Quick-Disconnect thumb nuts and allow the projector/mount to drop down until there is enough space between the top and bottom halves of the projector mount for the CV Mount to fit in between them. A second person is recommended to lightly hold the projector and stabilize it.



5. Swing the CineVista lens bracket all the way in so that it is close to the projector. Then, bracing the projector from the back, insert the CineVista mount between the top and bottom halves of the Chief mount and slide it back until the back edge of the lens bracket rests 1/2" from the front of the projector's lens or the front of the projector body (whichever is closest to the CineVista lens).



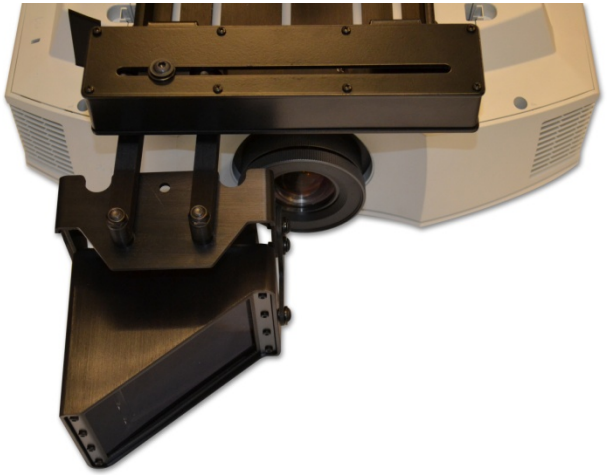
6. To help insure that an adequate distance is obtained a foam "spacer"(h) is included in the installation kit. Place this spacer along the front of the projector and slide the CV Mount into place until the back of both arms of the CV Lens Bracket touch the spacer evenly.



7. Tighten the Quick-Disconnect thumb nuts to stabilize the unit. Check to make sure the projector is still properly centered on the screen and the top and bottom of the image aligns with the screen. Adjust the image if necessary.

INSTALLING THE CINEVISTA LENS

1. Swing the arms that hold the CineVista Lens Bracket back out to their fullest extension away from the projector and prepare to install the lens. You will need one of the #10-32 x ½" screws (c) and black metal washers (d) for each side of the bracket as well as a #10-32 x ½" Knurled Washer (e) and the 1/8 Gold Hex Key (b).



2. Holding the CineVista lens between the two "forks" of the lens bracket, place one of the knurled washers between the lens and the fork. Then take one of the #10-32 x ½" metal washers (d) and place it over one of the screws (c) and insert the screw through the fork into the receiving hole in the side of the CineVista Lens. Repeat the process for the other side of the lens and snug the screws down but do not fully tighten them.

3. Once the CineVista Lens is installed, swing it into place in front of the projector's lens. The CineVista Lens should be centered horizontally on the projector's lens and should have approximately ¼" between the back of the CineVista lens and the front of the projector's lens or housing.

4. There are three adjustments for positioning the CineVista Lens:
   a) There is a *Pivot Screw* (B) on top of the *Adjustment Block* that allows the lens to slide side-to-side along the front of the projector;
   b) The *Swing Arms* (C) attached to the lens bracket adjust the distance between the CineVista lens and the front of the projector;
   c) The lens bracket *Adjustment Screws* (A) can be used to raise or lower the lens so that the light beam from the projector shoots through the CineVista lens cleanly.

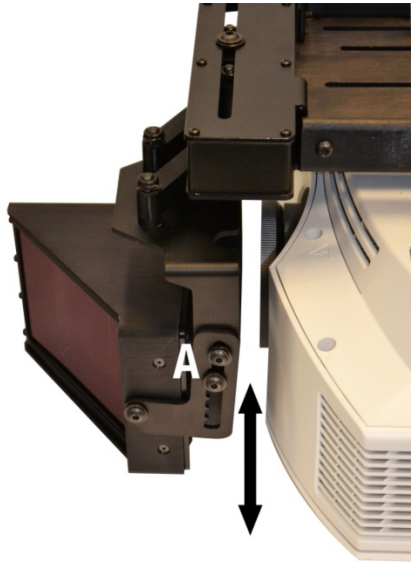
5. Turn on the projector. REMOVE THE PROTECTIVE FILM ON THE FRONT OF THE CINEVISTA LENS or the image will be blurry.

TUNING IN LENS TILT AND SHIFT

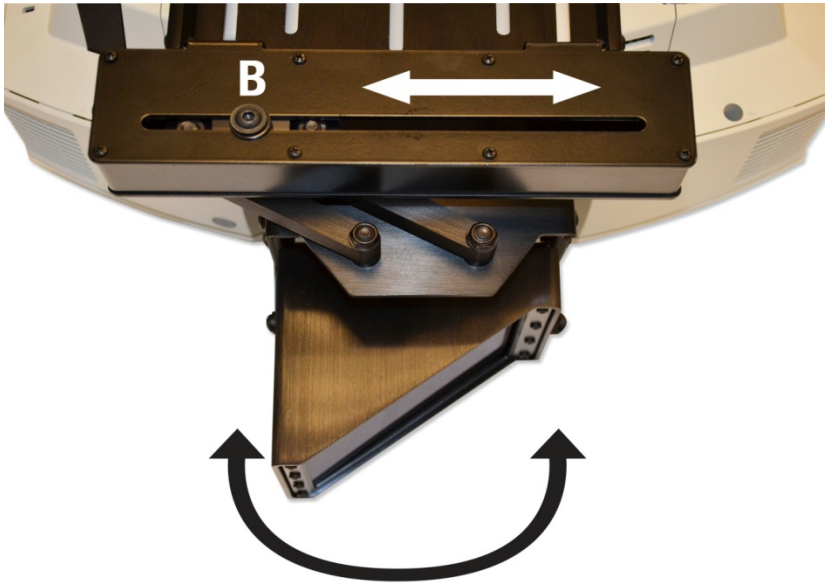
This is the core step of the setup so please be patient!

1. Use the projectors lens shift to move the image vertically so that it appears to be centered on the screen. Once the 16x9 image is satisfactory swing the CineVista lens into place in front of the projector's lens.

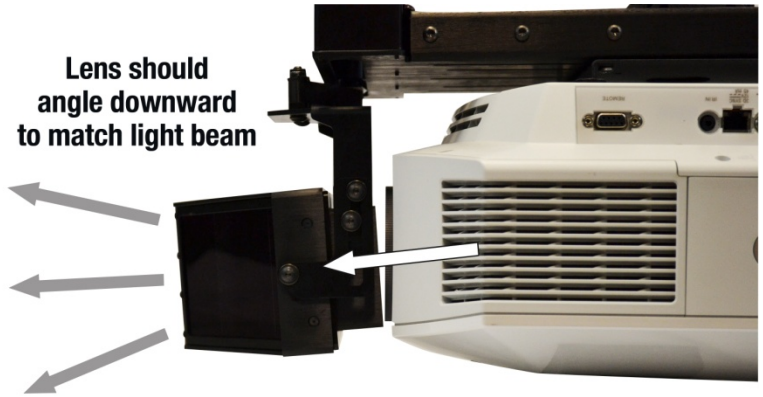
2. Loosen the lens bracket *Adjustment Screws* (A) and slide the CineVista lens up or down until the beam is firing through the center of the lens. Make sure the lens bracket *Adjustment Screws* are roughly even in their vertical slot position or the image will show an irregular geometry from right to left.



3. Adjust the rotation of the CineVista so that the left and right sides of the image are an equal distance from their respective screen borders. Now tighten the *Pivot Screw* (B) on top of the CV Mount Adjustment Block using the 5/32" Hex Key.



4. Adjust the vertical position and tilt of the CineVista Lens so that the projector beam is passing through the center of the Lens and so any residual pincushion distortion (an inward curvature to the image) is about the same at the top and bottom of the image. Tilting the lens up or down on its axis will even out this curvature. This will typically result in the CineVista Lens being below the center of the projector lens and tilted downward slightly. Tighten the lens bracket *Adjustment Screws* (A) to lock the lens in place.



5. For optimum multiple aspect ratio performance, adjust the projector's zoom so that a 1.85:1 aspect ratio movie is just masked by the top and bottom of the screen border. This way 1.85:1, 16:9 and 2.35-2.40:1 aspect ratio movies should all be presented to fill the screen at a constant height.

PROJECTOR SETTINGS WHEN USING THE CINEVISTA

To enjoy an Ultra-Widescreen 2.35:1 movie it is necessary to use two "aspect modes". These modes are either in your projector or in an external device such as a scaler, some blu-ray players and some a/v receivers.

The first aspect mode is a "vertical stretch" setting which is used for ultra wide content. This removes the letterbox bars from a 2.35:1 image by stretching the image vertically. The CineVista lens corrects the vertically stretched image geometry to fill your ultra wide screen.

The second aspect mode is 4:3 mode. This mode is used when watching 16:9 HD content like TV shows or standard widescreen movies (1.78:1 or 1.85:1).

CHART 1 – Aspect Modes Please consult your projector's instructions for these settings and how they are activated.

	Aspect Mode Names	
Projector Manufacturer	**For Watching Ultra Wide Movies**	**For Watching TV or Standard Widescreen Movies**
BenQ	Letterbox (LB)	4:3 Mode
DPI	TheaterScope Mode	4:3 Narrow
Epson	Anamorphic Wide	Horizontal Squeeze
InFocus	Letterbox Mode	4:3 Mode
JVC	Anamorphic A	Anamorphic B
Mitsubishi	Anamorphic 1	Anamorphic 2
Optoma	Letterbox	4:3 Mode
Panasonic	V-Fit	4:3 Mode
Runco	Letterbox	4:3 Narrow
Sharp	Anamorphic 2.35:1	Anamorphic 16:9
SIM2	Letter Box	4:3 Mode
Sony (HW50)	V-Stretch	Squeeze
Sony	Anamorphic Zoom	Normal
ViewSonic	Anamorphic 1	Anamorphic 2
Vivitek	Letter Box	4:3 Mode

CLEANING

In most applications lenses do not need very much cleaning – a bit of dust will not impact image clarity. However, in today's high performance home cinemas with very dark rooms a small build-up of dust or other foreign matter on your projector lens or your Panamorph lens can produce a measurable reduction in contrast. The most effective cleaning approach is to simply blow off any dust. If there is any residue or build-up then it is recommended that you clean the optics with professional lens cleaning supplies such as from a camera store while the lens is in front of the lit beam of the projector. This will allow you to quickly see both the results of cleaning and also if you are causing any damage.

LIMITED WARRANTY

Panamorph, Inc. warrants this product to be free of defects in original workmanship and material for a period of eighteen months from the date of manufacture listed on or inside its shipping container. During this period, a defective unit may be repaired or replaced, at the discretion of Panamorph, Inc., by returning it in its original packaging with a copy of your receipt. This warranty does not cover damage resultant from lack of prudent care, accident or misuse (including the use of motor systems with lenses or other products in ways not intended), or any cosmetic damage not reported within 15 days of purchase. Damages are limited to the cost of the product. A service charge may be applied to any returned product requiring cosmetic attention, or to the repair of any damage not covered under this warranty.

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